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BEST AVAILABLE COPY**Abstract:**

An axle assembly that uses brakes that require cooling includes a brake cooling system that uses at least one hydraulic pump that supplies cooling oil to the brakes. Means for driving of the hydraulic pump using rotation of a component of the axle assembly such as a transmission or other mechanism is provided, thereby eliminating reliance on a towing vehicle. A heat exchanger cools the heated oil exiting from the brakes and recirculates the cooled oil back to the brakes for continued cooling.